



Center for Health Information and Analysis

APCD Analytical Workgroup

January 22, 2013

www.mass.gov/chia



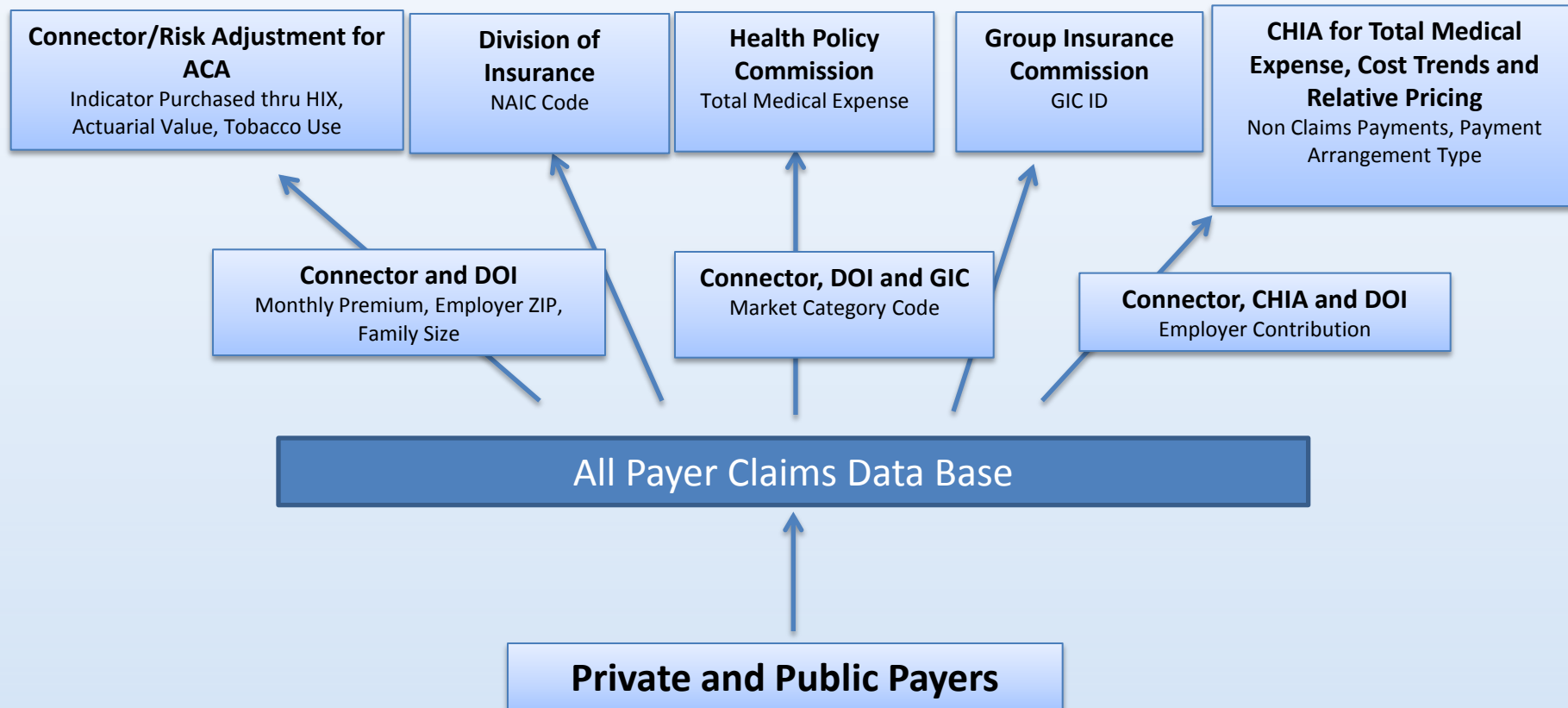
Objectives of the APCD User Webinars

- To provide a forum where you can learn about APCD updates and ask questions
 - Administrative Bulletins
 - APCD Application Process
 - APCD Data Fulfillment
 - Data Definitions
 - Tools and methodologies
- To share Q&A that come into CHIA with a broader audience
- To solicit your input for improvements to the APCD



Administrative Simplification

Selected Data Elements in the APCD





Introducing The APCD Team

- Marilyn Schlein Kramer, Deputy Executive Director for Health Information
- David Wessman, Chief Technology Officer, APCD
- Betty Harney, Director of Quality Assurance
- Sabine M. Hedberg, Director of Health Data Analytics
- Kathy Hines, Director of Data Compliance and Support
- Chris Kane, Director of Standardization and Enhancement
- Adam Tapply, Senior Health Policy Analyst



APCD Metrics

- Initial regulations establishing the APCD were promulgated in July 2010
- Data from 2008 and 2009 were retroactively submitted to APCD
- Data for years 2008 -2010 is available and is approximately one terabyte
- The number of Available Data Elements in each File and Grand Total

File Description	# Public Elements	# Restricted Elements
Dental Claims	38	21
Medical Claims	109	43
Pharmacy Claims	55	24
Product File	58	31
Eligibility File	9	10
Provider File	54	13
TOTAL	323	142



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All-Payer Claims Database

The APCD is comprised of medical, pharmacy, and dental claims, as well as information about member eligibility, benefit design, and providers for all payers covering Massachusetts residents. The APCD streamlines required data submissions for payers and also affords a deep understanding of the Massachusetts health care system by providing access to timely, comprehensive, and detailed data. The recently released APCD will be an essential tool to improve quality, reducing costs, and promote transparency.

APCD Introduction

[View an overview of the APCD and its intended uses.](#)

Submitting Data to the APCD

[See APCD regulations, data submission guidelines, quality assurance edit, data dictionaries, and database schema.](#)

Accessing the APCD

[Learn how to apply to use the APCD as well as pricing information.](#)

Friendly URL: <http://www.mass.gov/chia/apcd>

Use www.mass.gov/chia/apcd to access this page directly.

News & Updates

[APCD Administrative Bulletin, Includes Q&A Document](#)

[APCD Web Announcement](#)

[APCD Workgroup Meeting-October 23](#)

[APCD Fee Schedule](#)

[DHCFP Application for CMS Data](#)

[See All](#)

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Accessing the APCD

[Regulation - 114.5 CMR 22:00: Health Care Claims Data Release](#)

[Application to Receive Data](#)

[Fee Schedule](#)

[APCD Data Guides - User Documentation](#)

[DHCFP Application for CMS Data](#)

[FAQs](#)

[Applications Received and Commenting](#)

[Data Release Committee \(DRC\) - Meetings and Information](#)

[APCD Workgroup - Meetings and Information](#)

APCD Regulations

[Regulation 114.5 CMR 22.00 – Health Care Claims Data Release](#)

114.5 CMR 22.00 governs the disclosure of health plan information and claims data submitted by health care payers pursuant to [114.5 CMR 21.00](#). The purpose of 114.5 CMR 22.00 is to make health plan information and data available as a resource where such access serves the public interest while safeguarding the privacy rights of claims data subjects.

Application to Receive Data

This web page contains information and the application for All-Payer Claims Database (APCD) data. Please read the application carefully and complete the **entire** application form and provide the necessary attachments. **PLEASE NOTE:** The applicable fee schedule for this information will be published shortly.

This document contains the Data Application, the Data Use Agreement, the Confidentiality Agreement, and the Certification of Project Completion & Destruction or Retention of Data. The Center for Health Information and Analysis (CHIA) highly recommends that applicants review the data release regulation and applicable administrative bulletins for regulation [114.5 CMR 22.00](#) prior to making their request.



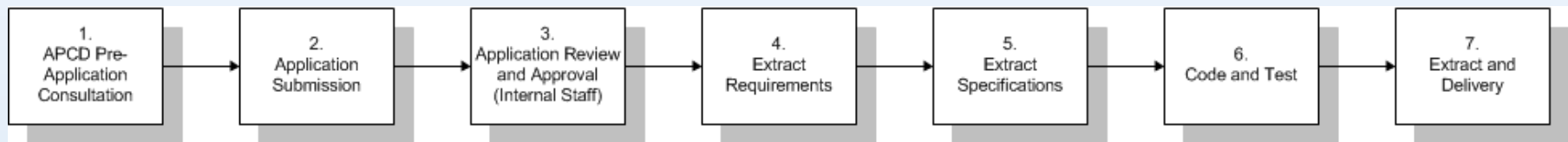
DRC Approved Applications

July – December 2013

- Risk Adjustment per Affordable Care Act
- Patient-Centered Medical Home Evaluation
- Evaluation of Mass in Motion and Community Transformation Grants
- STD, HIV, and Viral Hepatitis Testing, Treatment & Screening Trends
- Utilization of Tobacco Treatment in Massachusetts to Quit Smoking
- Health Care Reform and Disparities in the Care and Outcome of Trauma Patients
- Child Health Care Quality Measurement – Core Measure Set Testing
- The Effects of Fragmentation in Health Care
- Substance Abuse Treatment Needs and Services Gap Analysis
- Practice Pattern Variation Analysis (PPVA) Program



APCD Application/Data Fulfillment Process





Developments and Enhancements

As of January 2013

2011 Public Release will be available in June 2013

- Will include MassHealth 2008 to 2011
- Will include Medicare 2008 to 2011 (state agencies only*)

2012 Public Release will be available in December 2013

- Master Member Index

* In discussions with CMS about possible re-release by CHIA

Data Integer 10*

MEDICAL CLAIMS ELEMENT

Definition: National Provider Identification (NPI) of the Service Provider. Report the Primary National Provider ID (NPI) of the Servicing Provider in MC024. This ID should be found on the Provider File in the NPI Field.

- The NPI is a 10-digit, intelligence free numeric identifier (10 digit number). Intelligence free means that the numbers do not carry information about health care providers, such as the state in which they practice or their provider type or specialization.
- The NPI will replace health care provider identifiers in use today in HIPAA standard transactions. Those numbers include Medicare legacy IDs (UPIN, OSCAR, PIN, and National Supplier Clearinghouse or NSC).
- The provider's NPI will not change and will remain with the provider regardless of job or location changes.

Accepts Null Values

Yes

All Medical Claims Records with 98% Expected Threshold

Same Data Elements Exists In Other Files: DC020, MC077, ME038, PC021, PC048, PV039, PV040

Data Source: National Provider Identifiers National Plan & Provider Enumeration System

<https://nppes.cms.hhs.gov/NPPES>

Data Collector: Centers for Medicare and Medicaid Services (CMS), Insurance Company

Other Associated Elements: Service Provider Tax ID Number (MC025), Service Provider Entity Type Qualifier (MC027), Service Provider First Name (MC028), Service Provider Middle Name (MC029), Servicing Provider Last Name or Organization Name (MC030), Service Provider Suffix (MC031)

Uses: For provider identifications and for a master provider file

Center for Health Information and Analysis Quality Assurance Metrics

CHIA QA Rule ID	Level	QA Metric Description	QA Metric Justification	Metrics Result	QA Date
MC026-1	1	Frequency Analysis for Invalid Values	Use of invalid format (less than 10 digit or numbers and characters)	0.02% (135,164 rows with invalid format from 863,485,592 rows) across all years	12/28/2012
MC026-2	2	Missing values	Missing Values	14.87%(128,329,470 rows from 863,485,592 rows) across all years	12/28/2012
MC026-3	3	Unique count	Unique count	366,905 unique values across all years	12/28/12
MC026-4	4	Linkability	This field should have a matching record in the Provider file PV039	85.5% of unique values merge with provider file (313,801 rows across all years)	01/09/13

*Text 20 characters in V2 Submission Guide



**Sample
Data Dictionary Page
based on all APCD Data
as of December 2012**



Completeness of National Provider Identification Numbers in APCD Preliminary 2010 Release Version 1.0

APCD File Type	Element Code	Data Element Name	Record Count	Percent Missing Data (number of records)	Percent Valid* Data Available (number of records)	Submission Expected Threshold
Dental Claims	DC020	National Service Provider ID	6,987,094	23.9% (1,673,057)	76.1% (5,314,037)	98%
Medical Claims	MC026	National Service Provider ID	145,647,923	8.1% (11,756,835)	91.9% (133,891,088)	98%
Medical Claims	MC077	National Billing Provider ID	145,647,923	8.1% (11,761,734)	91.9% (133,886,189)	99%
Medical Eligibility	ME038	Health Care Home National Provider ID	20,752,265	99.9% (20,748,416)	0.02% (3849)	10%
Pharmacy Claims	PC021	National Pharmacy ID Number	110,674,067	2.7% (2,971,475)	97.3% (107,702,592)	98%
Pharmacy Claims	PC048	Prescribing Physician National Provider ID	110,674,067	10.7% 11,881,045	89.3% (98,793,022)	80%
Provider File	PV039	National Provider ID	36,709,518	23.8% (8,736,147)	76.2% (27,973,371)	98%
Provider File	PV040	National Provider2 ID	36,709,518	93.5% (34,337,782)	6.5% (2,371,736)	1%

* Validated against National Provider Identification Data



Common Q&As To Share

- What are the options for receiving the APCD Data? - External hard drive or in special circumstances, Secure File Transfer Protocol (SFTP)
- Will a separate application or addendum to the APCD application be required to receive MassHealth or Medicaid Data? - An addendum to the APCD application will be required for MassHealth Data. The process for obtaining Medicare data is under development
- How long does it take from the time of notification of approval of the application to the actual receipt of the data? -. This is a new process and there are many factors that influence the timeframe. The first data extract was shipped 1.14.13.
- Has the APCD Fee Schedule been revised based on input received at the public hearing? CHIA will be issuing a new fee schedule shortly based on the feedback from the public hearing.



Lessons from the Data Release Committee (DRC)

- Applicants are encouraged to attend the DRC Meetings or call in to be available to address questions.
- IRB approval is required before APCD data is obtained.
- Cell Size Suppression is less than 11. That is the CMS standard for Suppression.
- Provider name is a public data element. Concern was expressed over releasing physician-level quality and other measures without prior notice to physicians.



Characteristics of a Good APCD Application

1. Complete all sections
2. Consult with CHIA Staff prior to submission
 - Review Research Questions and Objectives
 - Review Data Requirements
 - Confirm that selected data elements are required to address research questions, objectives and data requirements
3. Provide detailed rationale for **each** data element
4. Clearly describe methodology and safeguards for data security and integrity



Announcing The APCD User Group

- The next group of APCD users will receive their extracts in the coming weeks
- An APCD User Group will be established once we have 2-4 users ready to proceed
- The purpose of this group is to:
 - Answer questions about using APCD data
 - Facilitate exchange of “know how” among users
 - Provide CHIA feedback on data quality



Topics for February User Webinar

Please submit questions and topics for our February Webinar
Questions?

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Thank you for your interest in the Massachusetts
All Payer Claims Database